

C-A SCHEDULED SHUTDOWN –WEDNESDAY JAN. 21, 2004, 0700-1500HRS

RESULTS – 1900HRS. JAN. 21, 2004

R. Zaharatos –Wednesday January 21, 2004

CONTROLLED ACCESS – AGS
(BOOSTER – NO ACCESS)

RESTRICTED ACCESS – RHIC AND HEBT

ATR RESTRICTED– ATR Line(powered heat run of all magnets)

PRIMARY SCHEDULE

Wednesday 01/21/04

Operations Schedule for Maintenance and Turn On21 Jan 04

*******Note: If studies end early or other circumstances allow, begin AGS LOTO prior to 0700*******

Time	Activity	Personnel
0700:	Begin RHIC access, all areas to RA except Dumps. RCA for survey access.	1OP, 2HP
0700:	*****Begin CA LOTO, AGS.*****	2CAS
0700:	Extra CAS team to STAR to Perform LOTO	2CAS
0800:	Enter AGS ring for surveys/F1 Decontam.	1CAS, 3HP
0800:	Plumbers access AGS with HP.	
0830:	Open TTB Crossover for MW work aster survey	1OP, 1HP
0930:	HP RCA to AtR for RA surveys/Heat Run.	1OP,1HP

******* File server for Control down from 0930 to 1130 NO CONROLS: Ensure all supplies etc are proper state for maintenance before this time*******

~1000:	Access South Wiring Tunnel.	1OP/CAS
1200:	Secure AGS for Lunch –NO LOTO removal. If working through lunch, O.C. prepares for cursory sweep at 1400.	
1300:	Re-Open AGS (CA).	
1330:	Sweep TTB/Crossover and AtR.	2OP/CAS
1400:	Sweep AGS if necessary.	3OP/CAS

1500: Begin RHIC sweeps – 4 teams follow sweep guide. 3CAS,5MCR

<1630: Close AGS, begin AGS LOTO removal (begin as soon as plumbers etc are done for the day). 2CAS/MCR

1700: Restore Beam to AGS.
Restore Physics after RHIC sweeps completed.

JOBS STATUS CODES: **C** complete **IP** in-process **RS** reschedule
CAN cancelled * additions

RHIC JOBS

Collider P.S – R. Zapasek

RHIC Tunnel

- C** 1. Sector 10 warm magnet – connect and test.
- C** 2. Cryo feed transistions – check temperature control for freeze-ups around entire ring(Wiegand)
- C** 3. Correctors:
Check polarity of yo8-oct3. Also run at different current levels and measure current of front bnc, pet page and clamp on. Run it at 1A, 10A, 20A, 30A, 40A and 50A. Measure voltage on front bnc and magnet as well. Make sure the p.s. is wired to the right magnet. I think this p.s. magnet is ok but Fulvia had a problem with it. (**Rich C and Gregg**).
- C** 4. Abort Kickers – adjust sensitivity of audio detection chassis(Yugang Tan)

RHIC Service Buildings

- C** 1. New 1005E Controls UPS – connect power strips in racks 5B4 and 5B5(requires power outage to these racks) (Pham/Magoulas)
- C** 2. 1007W Controls UPS – connect power strips in Racks 7B4 and 7B5(1100-1500)(**Pham/Magoulas**)
- C** 3. 1004B Main P.S. – check internal connections(Schulteiss). Requires complete LOTO of both rings.(Zapasek, begin 0700hrs)

IR p.s.'s in service buildings

- C** 1. Change aux contacts for bi9-qd6. The mains do not have to be locked out because the SCR bridge is not exposed when you take the top cover off. You just have to stay away from the iso amp board and DC bus at the rear of the p.s. (**Jeff and Tom**).
- C** 2. B12-dhx iso amp board should be swapped out. Make sure the jumpers are set up the right way. We have to lock out the blue dipole mains and the blue quench switches. (**Joe, Mitch and Don**).
- C** 3) Check signal cable between bo10-qd7-qp and bo10-qd7-ps. Ring out both ends and make sure there are no loose pins or wires. Examine crimps. Remove D connector shells and examine. Get wiring diagram from Don. Also check D connector on qpa that goes to qpaic and maybe at the qpaic end too. Be careful going into the qpaic

rack, you may have to lock out the quad mains if you think you are getting close to the p.s. DC bus. **(Rich K and Brian).**

- C 4) Replace yi10-tq5 with the p.s. that came out of bo3-tq6-ps (serial number = ?). Put yi10-tq5 on the bench and solder wire in for FET fault after trying to reproduce problem. Remove special controller card from yi10-tq5 before starting any work and give to Don. Replace with a regular controller card for testing. This is low priority. If we don't get to it, it's ok. **(Tom and Jeff).**
- C 5) Check signal cable between bo10-dhx-qp and bo10-dhx-ps. Ring out both ends and make sure there are no loose pins or wires. Examine crimps. Remove D connector shells and examine. Get wiring diagram from Don. Also check D connector on qpa that goes to qpaic and maybe at the qpaic end too. Be careful going into the qpaic rack, you may have to lock out the quad mains if you think you are getting close to the p.s. DC bus. **(Rich K and Brian).**
- C 6) Check b12-dh0-qp controller card. CAS swapped it out on 1/17/04 and I want to make sure they did not miss anything. **(Rich K and Brian).**
- RS 7) Install spare fiber optic card in yi2-qf9. Check jumpers **(Don and Joe).**

ATR p.s.'s in service buildings

- RS 1. Try to put remote I/O alarm bit in for one PLC and try to test one PLC with Joe P to see if it works.

Controls – B. Venegas

- C 1. 1012A vacuum permit input problem (Michnoff and Koropsak)

RF Group – N. Laloudakis

- C 1. Repair 197 QEI(BS2)
- C 2. Check wiring for Yellow Landau Cavity
- C 3. Make and install 2 cables for Stochastic Cooling
- C 4. Phase match Landau Cavities and check the 197's
- C 5. Electrical work outside ring
- C * 6. 1004A – 440AC phase fault – removed one heater from ckt.

Vacuum Group – S. Gill

- C 1. Remove Stoicastic Kicker Tank bake-out.
- IP/RS 2. Continue Bi-8 bake-out set-up
- C 3. Check/drain air-line of water(none found)
- C 4. Sect. 2 Schotky Kicker – respray
- C 5. Sect. 2 – sublimate sect. Bo-2

Beam Components and Instrumentation – D. Lehn

Stoicastic Cooling Sect. 4 & 11

- 1. Pick-up tank in sect. 11
 - C a) Repair right plate motion
 - RS b) Calibrate linear pots
 - C c) Test through BPL
- 2. Kicker Tank -Sector 4
 - C a) Hookup all cables

- C b) Repair right plate motion
- IP c) Calibrate linear pots
- IP d) Repair H U/S read-back
- RS e) Test through BPL

Collimators sect. 7 & 8

- C 1. Run and test as necessary

Gap Cleaning

- C 1. Check Chiller Reservoirs
- RS 2. Run test for HV Pulser
- RS 3. Possible modification of HV Pulser

High Frequency Instrumentation – B. Sikora

- C 1. Sect. 1 & 2 moveable BPM Schottky Cavity and Two Meter Kickers – access for fine tuning required after beam start-up.
- C 2. QMM(Quad Monitor) – will also require access for tuning

Access Controls(Meany)

- C 1. Repair/adjust 12GE1 Gate

Tunnel Maintenance

- RS 1. Water intrusion in Sect. 12 IR above Jet Target location

RHIC/FES Division – A. Pendzick

- C **STAR** - Access for experimenter.
- C **PHENIX** - Experimenter access
- C **BRAHMS** - Experimenter access
- C **PHOBOS** - Experimenter access

Other RHIC Access Jobs

- C 1. Warm Dipole Magnet in Sect. 10 – Connect to mag. and test.
- IP 2. Sectors 8 & 9 – Safety related work requests(Carpenters)
- IP/RS 3. Jet Target area(Electricians/Wade)
 - Install 100A Service Panel and conduit.
 - Install single phasae 208vac service receptacle for chiller.
 - Install 4 duplex outlets for vacuum pumps.
 - Install 2 recept. for H2 generator circulators.
 - Run 5 cond. #6 from 100A service to 1012A Bldg..
- 4. Sect. 10 – install portable loss monitor 1 meter dns of warm dipole.

AGS(external)

- RS 1. Cyberex UPS – replace capacitors(Magoulis -3hrs). Switchover to external by-pass expected to be transparent – Feeds all the AGS ring gates, AGS crash, PASS system A & B, PASS BAF, SIEMENS equip interlocks, SEB and AGS chipmunks, prime and redundant SEB and FEB sec, U,V,W,X,Y PLC power.
- C 2. Controls network – file server off-line for repair from 0930 to 1130hrs.(Katz)
- C 3. Vacuum sys. E18 Hse. – LOTO EF for Snake work.
- C 4. Vacuum A10 Hse. – LOTO HEBT 2 & 3 for Linac work
- C 5. Vacuum – clear DNA readbacks & repair ion pump power supplies.

AGS RING

- IP/RS 1. **E20 Snake** – continue installation of water piping(PE). **LOTO of Woods Metals and Ion Pumps required.**
- C Decon F1 Main Mag. area(HP)
- RS Continue cabling installation.
- C Weld jack adjusting rings(3) and d/s jack support
- C Remove one Main Mag. Buss support and reposition remaining support
- C 2. Safety Related Work Requests – List for electricians.
- C 3. C15 Polarimeter – verify cable set-up and remove filter box in HITL2(Bm. Comp.)
- C 4. A10 through C20 in and out – Inspect areas for proposed relocations of:
- C 5. A20Harp/A20 Flying Wire/A20 Current Transformer, and A10 Tune Meter.
- C 6. Inspect area for new BLIP interlock current transformers.
- C 7. Inspect video inst. And extraction equip. for upcoming KOPIO tests
- C 8. Investigate D3 and J13 vacuum valve DNA's.

ATR

- C 1. Check temperatures of all transport magnets(Phillips) All okay.

BOOSTER EXTERNAL

BPM's/ Controls Grp.

- RS 1. Investigate A3(open) and C3(shorted)
- RS 2. Filter assemblies above racks
- RS 3. Install air filter assemblies.
- RS 4. Repair exhaust fan on C Sect. Rack
- RS 5. Phase match B4 cables

BOOSTER RING

- RS 1. BPM repairs/reconfigure(DiFranco)

LINAC/HEBT ACCESS

Access Controls

- RS 1. Completion of annual re-certification(requires access to HEBT Gates).

Linac(Briscoe)

- C 1. REPLACE SEM 6 WIRES IN THE VAC CHAMBER(HEBT 3)
- C 2. INSTALL PLATE TO COVER BORING HOLE IN HEBT